

STRAIT OF JUAN DE FUCA - PYSHT/TWIN/DEEP CREEK COHO

STOCK STATUS

1992 STATUS

Depressed

2002 STATUS

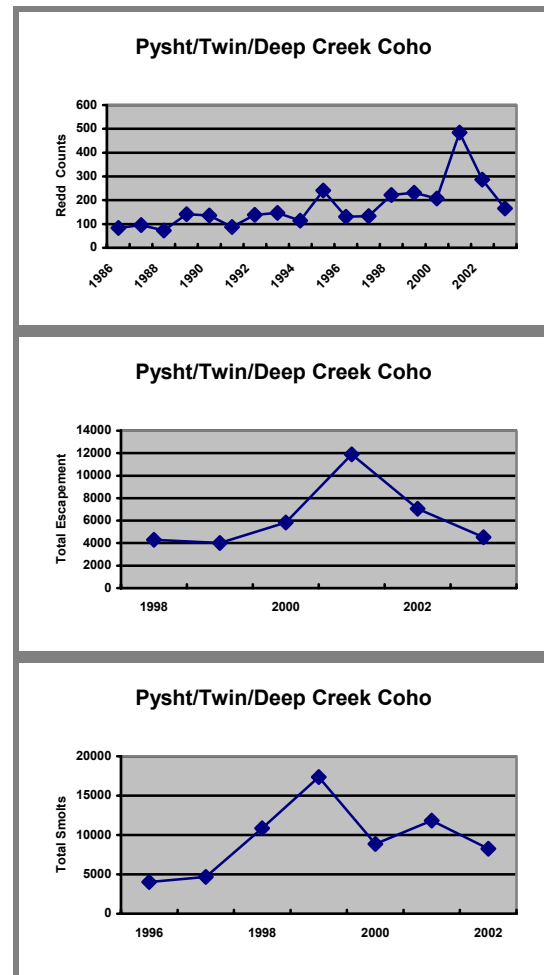
Healthy

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK

STATUS: Good

BROOD YEAR	REDD COUNTS	TOTAL ESCAPEMENT	TOTAL SMOLTS
1986	83		
1987	95		
1988	73		
1989	141		
1990	136		
1991	88		
1992	139		
1993	147		
1994	115		
1995	241		
1996	130		4,022
1997	133		4,678
1998	222	4,307	10,865
1999	232	4,002	17,360
2000	207	5,834	8,863
2001	484	11,906	11,818
2002	287	7,063	8,254
2003	166	4,521	Not available



Data are 1) cumulative redd counts from index areas in Sadie Creek (RM 1.6 to 2.2), an East Twin River tributary, and in the South Fork Pysht (RM 5.7 to 7.2) and Green Creek (RM 1.0 to 2.2); 2) total escapement estimates based on redd counts using a stratified random sampling method in Deep Creek, East and West Twin rivers, and the Pysht River and its tributaries (Crain 1999); and 3) total smolt production based on smolt trapping in Deep Creek beginning in brood year 1996.

All redd counts since 1991 have met or exceeded values observed prior to 1992, with much higher index escapements observed in 1995 and from 1998 to 2000. Smolt production in Deep Creek has been robust. Consequently stock status has been upgraded to **Healthy** in 2002.

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STOCK DEFINITION

Pysht/East and West Twin/Deep Creek coho were identified as a stock based on their distinct spawning distribution.

SPAWNING DISTRIBUTION: Most spawning takes place in the East Twin River, including Sadie Creek, the West Twin River, Deep Creek, the East Fork Deep Creek and throughout the Pysht River system.

SPAWNING TIMING: Spawning generally occurs from November to mid-January.

GENETIC ANALYSIS: No genetic analysis has been done on Pysht/East and West Twin/Deep Creek coho.

STOCK ORIGIN

This is a **mixed** stock with **wild** production. There were off-station releases of coho yearlings in this area almost annually between 1954 and 1971. Dungeness stock was most commonly used with additional releases from Sol Duc, Soos Creek (Green River), Marblemount (Skagit River) and George Adams (Hood Canal) hatchery stocks. The stock is likely a mixture of the native stock and introduced non-native stocks.